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☐ 1: AF232004. *Pseudomonas syringae* pv. tomato strain DC3000 Hrp pathogenicity island, complete sequence. [gi:13325077]

Links

LOCUS AF232004 1461 bp DNA linear BCT 05-MAR-2001  
DEFINITION *Pseudomonas syringae* pv. tomato strain DC3000 Hrp pathogenicity island, complete sequence.  
ACCESSION AF232004 REGION: complement(44657..46117)  
VERSION AF232004.3 GI:13325077  
KEYWORDS .  
SOURCE *Pseudomonas syringae* pv. tomato  
ORGANISM *Pseudomonas syringae* pv. tomato  
Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales; Pseudomonadaceae; *Pseudomonas*.  
REFERENCE 1 (bases 1 to 1461)  
AUTHORS Charkowski,A.O., Alfano,J.R., Preston,G., Yuan,J., He,S.Y. and Collmer,A.  
TITLE The *Pseudomonas syringae* pv. tomato HrpW protein has domains similar to harpins and pectate lyases and can elicit the plant hypersensitive response and bind to pectate  
JOURNAL J. Bacteriol. 180 (19), 5211-5217 (1998)  
MEDLINE 98422476  
PUBMED 9748456  
REFERENCE 2 (bases 1 to 1461)  
AUTHORS Alfano,J.R., Charkowski,A.O., Deng,W.L., Badel,J.L., Petnicki-Ocwieja,T., van Dijk,K. and Collmer,A.  
TITLE The *Pseudomonas syringae* Hrp pathogenicity island has a tripartite mosaic structure composed of a cluster of type III secretion genes bounded by exchangeable effector and conserved effector loci that contribute to parasitic fitness and pathogenicity in plants  
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (9), 4856-4861 (2000)  
MEDLINE 20243785  
PUBMED 10781092  
REFERENCE 3 (bases 1 to 1461)  
AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.  
TITLE *Pseudomonas syringae* pv. tomato DC3000 hrpL through hrcU  
JOURNAL Unpublished  
REFERENCE 4 (bases 1 to 1461)  
AUTHORS Alfano,J.R. and Collmer,A.  
TITLE Direct Submission  
JOURNAL Submitted (07-FEB-2000) Dept. Biol. Sci., UNLV, 1854 Maryland Parkway, Las Vegas, NV 89154, USA  
REFERENCE 5 (bases 1 to 1461)  
AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.  
TITLE Direct Submission  
JOURNAL Submitted (22-NOV-2000) Plant Pathology, Cornell University, 334 Plant Sciences Bldg., Ithaca, NY 14850, USA  
REMARK Sequence update by submitter  
REFERENCE 6 (bases 1 to 1461)  
AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.  
TITLE Direct Submission

April 25, 2000

JOURNAL Submitted (05-MAR-2001) Plant Pathology, Cornell University, 334  
Plant Sciences Bldg., Ithaca, NY 14850, USA  
REMARK Sequence update by submitter  
COMMENT On or before Mar 14, 2001 this sequence version replaced  
gi:3228544, gi:790906, gi:3228541, gi:8037790, gi:11276506.

FEATURES Location/Qualifiers  
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Revised: July 5, 2002.

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Jan 21 2003 18:08:12

AF232004. *Pseudomonas syrin...*[gi:13325077]

[Links](#)

LOCUS AF232004 52498 bp DNA linear BCT 05-MAR-2001

DEFINITION *Pseudomonas syringae* pv. tomato strain DC3000 Hrp pathogenicity island, complete sequence.

ACCESSION AF232004 AF061028 AF061029 AF232006 L41861

VERSION AF232004.3 GI:13325077

KEYWORDS

SOURCE *Pseudomonas syringae* pv. tomato

ORGANISM *Pseudomonas syringae* pv. tomato

Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;  
Pseudomonadaceae; *Pseudomonas*.

REFERENCE 1 (bases 25494 to 29778)

AUTHORS Preston,G., Huang,H.C., He,S.Y. and Collmer,A.

TITLE The HrpZ proteins of *Pseudomonas syringae* pvs. *syringae*, *glycinea*, and tomato are encoded by an operon containing *Yersinia ysc* homologs and elicit the hypersensitive response in tomato but not soybean

JOURNAL Mol. Plant Microbe Interact. 8 (5), 717-732 (1995)

MEDLINE 96025089

PUBMED 7579616

REFERENCE 2 (bases 22134 to 25847; 29687 to 32670)

AUTHORS Deng,W.L., Preston,G., Collmer,A., Chang,C.J. and Huang,H.C.

TITLE Characterization of the *hrpC* and *hrpRS* operons of *Pseudomonas syringae* pathovars *syringae*, tomato, and *glycinea* and analysis of the ability of *hrpF*, *hrpG*, *hrcC*, *hrpT*, and *hrpV* mutants to elicit the hypersensitive response and disease in plants

JOURNAL J. Bacteriol. 180 (17), 4523-4531 (1998)

MEDLINE 98389667

PUBMED 9721291

REFERENCE 3 (bases 31672 to 51723)

AUTHORS Charkowski,A.O., Alfano,J.R., Preston,G., Yuan,J., He,S.Y. and Collmer,A.

TITLE The *Pseudomonas syringae* pv. tomato HrpW protein has domains similar to harpins and pectate lyases and can elicit the plant hypersensitive response and bind to pectate

JOURNAL J. Bacteriol. 180 (19), 5211-5217 (1998)

MEDLINE 98422476

PUBMED 9748456

REFERENCE 4 (bases 901 to 22404; 31672 to 51723)

AUTHORS Alfano,J.R., Charkowski,A.O., Deng,W.L., Badel,J.L.,  
Petnicki-Ocwieja,T., van Dijk,K. and Collmer,A.

TITLE The Pseudomonas syringae Hrp pathogenicity island has a tripartite  
mosaic structure composed of a cluster of type III secretion genes  
bounded by exchangeable effector and conserved effector loci that  
contribute to parasitic fitness and pathogenicity in plants

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (9), 4856-4861 (2000)

MEDLINE 20243785

PUBMED 10781092

REFERENCE 5 (bases 1 to 52498)

AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.

TITLE Pseudomonas syringae pv. tomato DC3000 hrpL through hrcU

JOURNAL Unpublished

REFERENCE 6 (bases 1 to 52498)

AUTHORS Alfano,J.R. and Collmer,A.

TITLE Direct Submission

JOURNAL Submitted (07-FEB-2000) Dept. Biol. Sci., UNLV, 1854 Maryland  
Parkway, Las Vegas, NV 89154, USA

REFERENCE 7 (bases 1 to 52498)

AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.

TITLE Direct Submission

JOURNAL Submitted (22-NOV-2000) Plant Pathology, Cornell University, 334  
Plant Sciences Bldg., Ithaca, NY 14850, USA

REMARK Sequence update by submitter

REFERENCE 8 (bases 1 to 52498)

AUTHORS Ramos,A.R., Rehm,A.H. and Collmer,A.R.

TITLE Direct Submission

JOURNAL Submitted (05-MAR-2001) Plant Pathology, Cornell University, 334  
Plant Sciences Bldg., Ithaca, NY 14850, USA

REMARK Sequence update by submitter

COMMENT On or before Mar 14, 2001 this sequence version replaced

gi:3228544, gi:790906, gi:3228541, gi:8037790, gi:11276506.

FEATURES Location/Qualifiers

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